Case 2567

Callianidea H. Milne Edwards, 1837 (Crustacea, Decapoda): proposed conservation

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Abstract. The purpose of this application is the conservation of the name *Callianidea* H. Milne Edwards, 1837 for a cosmopolitan mud shrimp genus. It is threatened by *Isea* Guérin-Méneville, 1832, not used as a valid name since its inception because it was long regarded as a homonym of an older name, *Isaea* (an amphipod genus).

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1. The name *Isaea* H. Milne Edwards, 1830 (p. 380) was first established for an amphipod genus with the single included species *Isaea montagui* Milne Edwards, 1830.

2. In 1832, Guérin-Méneville (p. 299) proposed the name *Isea* for a monotypic decapod genus containing the new species *Isea elongata*.

3. H. Milne Edwards (1837, p. 321) considered *Isaea* and *Isea* to be homonyms, and replaced the latter by the name *Callianisea*. In the same paper Milne Edwards described the new genus *Callianidea* with the single included species *typa*, and remarked under *Callianisea* that Guérin's material was in very poor condition and that therefore the supposed differences between *Callianidea* and *Callianisea* might prove to be non-existent. Later authors have shared this view and synonymised the two genera.

4. The first author to do this was Guérin-Méneville himself (1856, p. xviii), who cited '*Callianidea*.-Edw., *Crust.*, II, 319 (1837).—Sin. *Isea* Guér. *Ann. Soc. ent.*, t. I, p. 30 (1832) – *Callianisea*, Edw., *Crust.*, II, 321 (1837)'. The name *Callianidea* was preferred over *Callianisea* by Guérin-Méneville and all later authors, probably because (1) it had 'page priority' (being mentioned 2 pages earlier), and (2) *Callianidea* was based on complete material while the type material of *Callianisea* was in a very poor condition when described, so there was doubt about the identity of the species. Guérin-Méneville's (1856) action was that of the first reviser (Art. 24) and it fixed the precedence of *Callianidea* over *Callianisea*, the two names having been published on the same date.

5. A further replacement name for *Isea* Guérin-Méneville, 1832 was proposed by Dana (1852, p. 11), who suggested the name *Callisea* because *Callianisea* 'is so near *Callianassa* and *Callianidea*, a contraction to *Callisea* would be preferable'. Neither *Callianisea* nor *Callisea* found acceptance by zoologists.

6. According to Art. 56b of the Code the name *Isea* is not a junior homonym of *Isaea*, as the names differ in one letter. *Isea* Guérin-Méneville, 1832, being the oldest available name for its genus, should therefore be used and should replace *Callianidea* H. Milne Edwards, 1837.

7. In the interests of stability the suppression of the generic name *Isea* is requested for the following reasons: (1) since 1832 this name has never been used as valid, while *Callianidea* has been consistently used since 1852 in numerous papers, and (2) some confusion with *Isaea* is likely to occur. The name *Isaea* is currently used for an amphipod genus, which is the type genus of the family ISAEIDAE Dana, 1853.

8. We have consulted 28 authors using the specific names *elongata* and/or *typa* for *Callianidea* species. Of these 25 used the name *typa*, considering *elongata* either as a separate species or a species *incertae sedis*, or ignoring the name altogether. Seven authors used the name *elongata*, but only two treated *elongata* as a senior synonym of *typa*; four authors treated *C. elongata* and *C. typa* as distinct species, and one used the name *elongata* without referring to *typa*. As the name *C. elongata* is usually thought to be a *nomen dubium* based on a badly damaged specimen which seems to be no longer extant, and the name *C. typa* is well known, it seems in the interest of stability to protect the latter name by giving it precedence over *C. elongata*. The status of the various (described and undescribed) species of *Callianidea* needs thorough revision and until that has been done there seems little sense in suppressing the name *elongata* altogether.

9. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary powers:
  (a) to suppress the generic name *Isea* Guérin-Méneville, 1832 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
  (b) to rule that the specific name *typa* H. Milne Edwards, 1837, as published in the binomen *Callianidea typa*, is to be given precedence over the specific name *elongata* Guérin-Méneville, 1832, as published in the binomen *Isea elongata*, whenever the two names are considered synomyms;
(2) to place the following names on the Official List of Generic Names in Zoology:
  (a) *Callianidea* H. Milne Edwards, 1837 (gender: feminine), type species by monotypy, *Callianidea typa* H. Milne Edwards, 1837;
  (b) *Isaea* H. Milne Edwards, 1830 (gender: feminine), type species by monotypy, *Isaea montagui* H. Milne Edwards, 1830;
(3) to place the following names on the Official List of Specific Names in Zoology:
  (a) *elongata* Guérin-Méneville, 1832, as published in the binomen *Isea elongata*, with an endorsement that it is not to be given precedence over *typa* H. Milne-Edwards, 1837, as published in the binomen *Callianidea typa*, whenever the two names are considered synonyms;
  (b) *montagui* H. Milne Edwards, 1830, as published in the binomen *Isaea montagui* (specific name of the type species of *Isaea* H. Milne Edwards, 1830);
  (c) *typa* H. Milne Edwards, 1837, as published in the binomen *Callianidea typa* (specific name of the type species of *Callianidea* H. Milne Edwards, 1837) with an endorsement that it is to be given precedence over *elongata* Guérin-Méneville, 1832, as published in the binomen *Isea elongata*, whenever the two names are considered synonyms;

(4) to place the following names on the Official List of Family-Group Names in Zoology:
  (a) CALLIANIDEINAE De Man, 1928, (type genus *Callianidea* H. Milne Edwards, 1837) (Crustacea, Decapoda);
  (b) ISAEINAE Dana, 1853 (type genus *Isaea* H. Milne Edwards, 1830) (Crustacea, Amphipoda);

(5) to place the following names on the Official Index of Rejected and Invalid Generic Names in Zoology:
  (a) *Callisea* Dana, 1852 (a junior objective synonym of *Callianisea* H. Milne Edwards, 1837);
  (b) *Isaea* Agassiz, 1846 (an unjustified emendation of *Isea* Guérin-Méneville, 1832, and a junior homonym of *Isaea* H. Milne Edwards, 1830);
  (c) *Isea* Guérin-Méneville, 1832, as suppressed under the plenary powers in (1)(a) above.

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